

**Dr. Hsiao-hua K. Burke**  
*MIT Lincoln Laboratory*



**EDUCATION**

Rice University, Houston, TX

Ph.D., Space Physics and Astronomy, 1976

Tunghai University, Taiwan

B.S., Physics, 1971

**WORK EXPERIENCE**

MIT Lincoln Laboratory

Assistant Division Head, Tactical Systems Technology Division, 2006 - Present

Group Leader of Sensor Technology and System Applications, 1995 - 2006

Senior Staff, Aerospace Division, 1993 - 1995

Associate Group Leader, Signature Analysis, 1988 - 1993

Assistant Group Leader, Signature Analysis, 1986 -1988

Technical Staff Member: System Concepts and Technology, 1981-1986

Environmental Research and Technology (ERT), Inc.

Technical member 1976-1981

**AREAS OF EXPERTISE**

EO-IR Sensor systems and applications, chemical and biological defense applications, hyperspectral technology and algorithm development, optical discrimination for ballistic missile defense, ISR (Intelligence, Surveillance and Reconnaissance) applications and Multi-INT integration and sensor fusion concepts.

**PROFESSIONAL/SCIENTIFIC/HONORARY AFFILIATIONS**

SPIE (The International Society for Optical Engineering) Conference Program Committee for Defense and Security.